



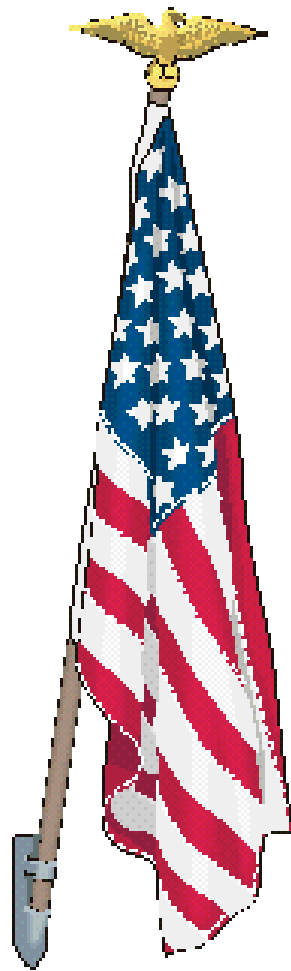
# Department of Energy Executive Safety Conference

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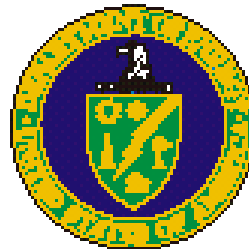
Coordination and integration of DOE line and  
independent oversight and contractor self-assessment  
Session 1

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Milt Johnson, Chair  
December 11, 2001

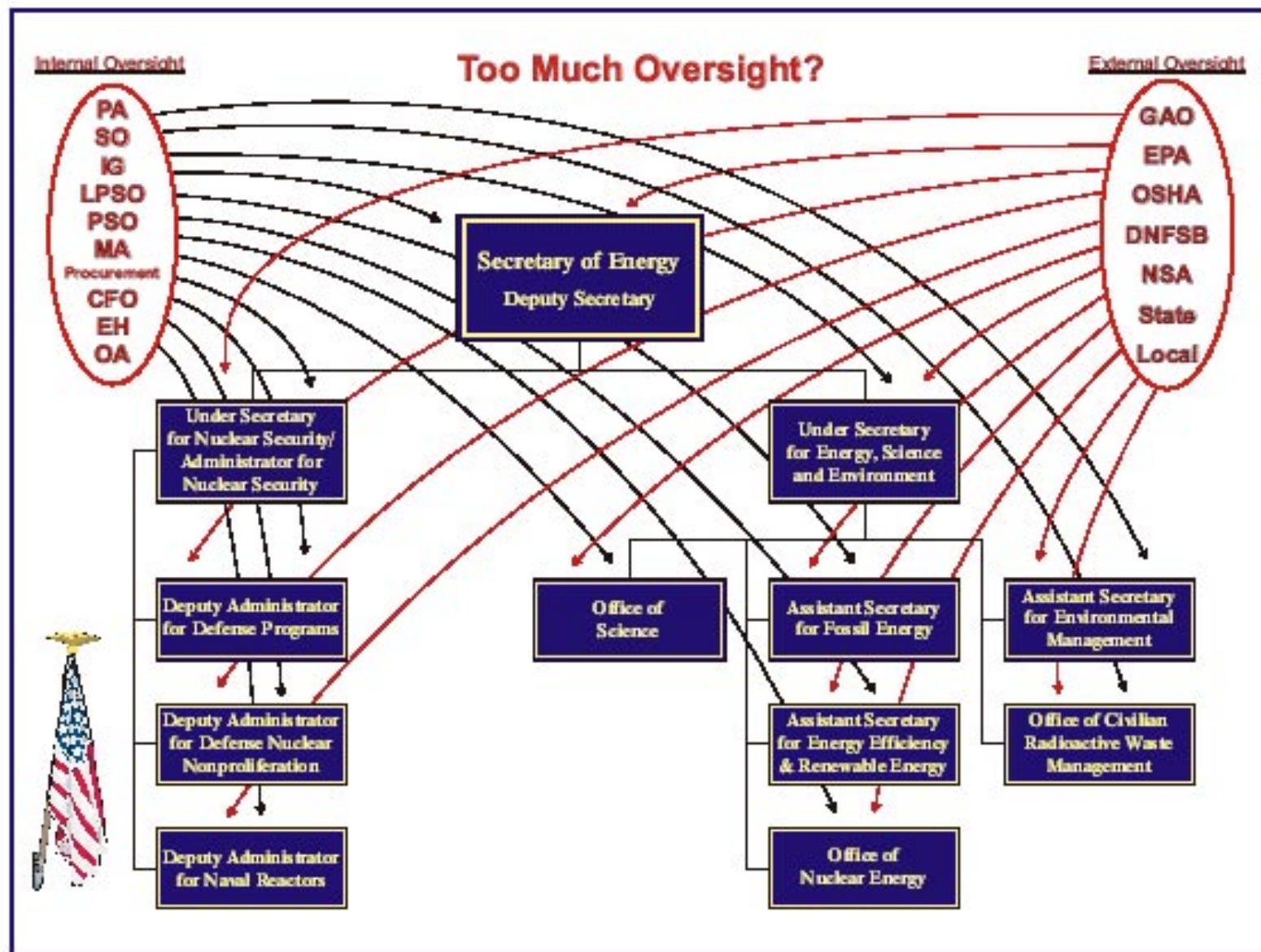


# Reducing Layers and Redundancy in DOE Oversight



*Office of Independent Oversight and Performance Assurance*

*United States Department of Energy*

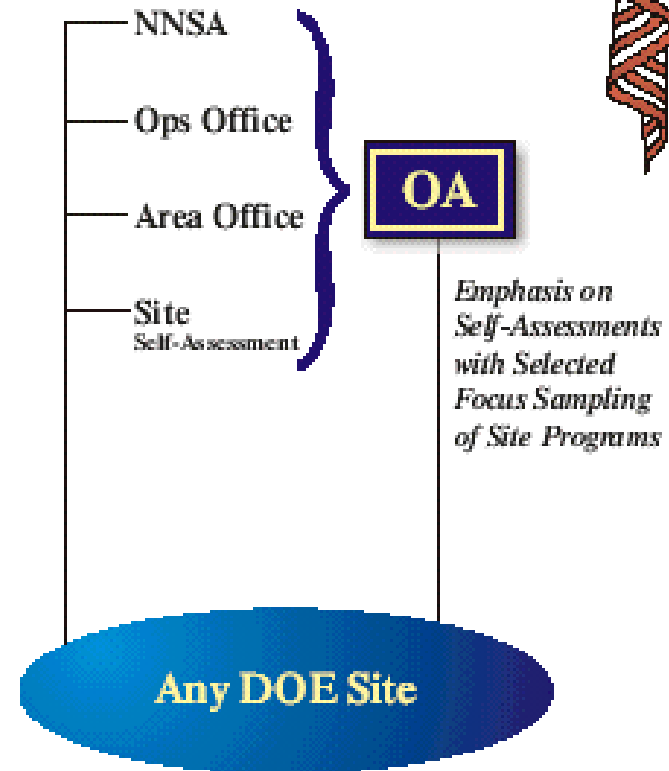


# Oversight Redefined

## Previous ES&H



## OA ES&H Model

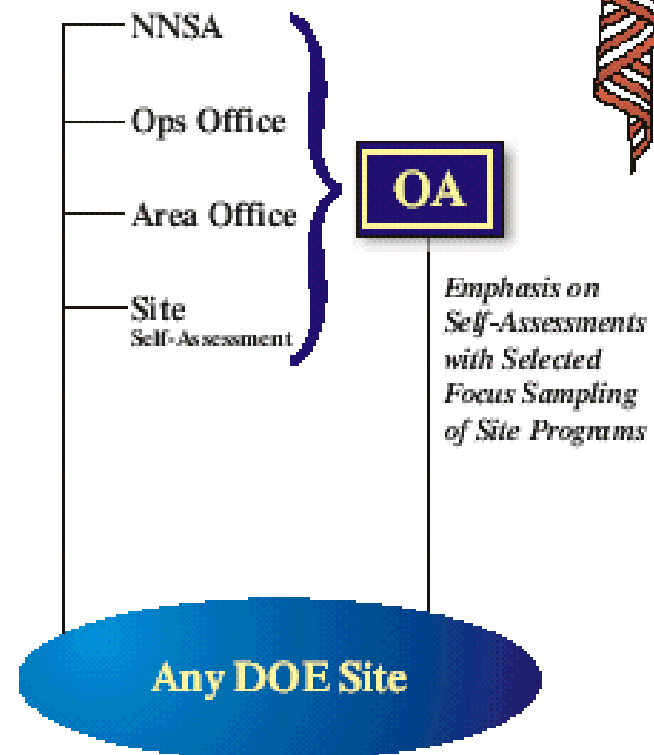


# Oversight Redefined

## Previous ES&H



## OA ES&H Model

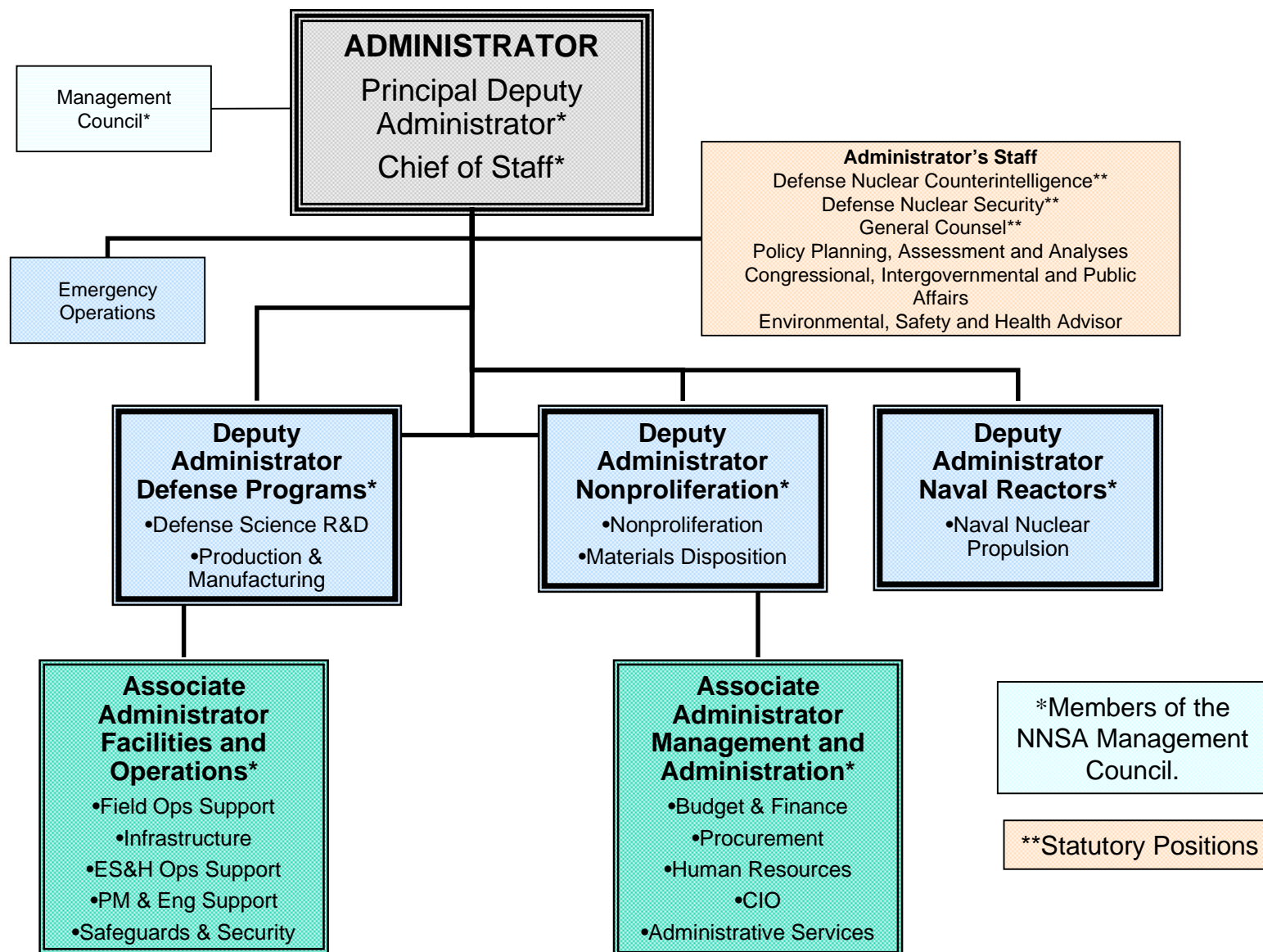


# Line Management Responsibility for Oversight–Implementation

*Session 1: Oversight and self-assessment*

# HQ Line Managers Oversight Responsibilities (DOE P 450.5)

- Monitor field element and contractor performance by review of information received (Para 3.a.).
- Participate in field element appraisals, assessments, surveillances, and walkthroughs of contractor facilities, when appropriate (Para 3.b.).
- Conduct onsite reviews of field element performance, including verification of their appraisals of the contractor, (Para 3.c.).
- For-cause reviews, as necessary (Para 3.d.).





# HQ On-Site Review of Field Element Performance

- NNSA Protocol supports HQ line management oversight responsibilities of DOE P 450.5 Para 3.c.
- Not a review of contractor.
- Sponsored by the Administrator and conducted by the Director of ES&H Operations Support.
- One week review.
- Up to one week on site to write report/brief managers.

# NNSA Protocol Review Concepts

- Performed every two years at NNSA sites.
- Standards-based/comparable to OA reviews.
- Based on ISMS functions and principles.
- Includes management assessment responsibilities defined in 10 CFR 830 Criterion 9 to ensure integration of QA with safety management.

# NNSA Protocol

## Review Concepts (cont'd)

- Performed by small team (NNSA HQ/NNSA field staff).
- Uses an Individual Review Plan approved by line managers.
- Results tracked and trended.
- Uses experienced Team Leaders (ISMS/ORR/Type A).
- Observations, record reviews, and interviews are major review activities.

# NNSA Protocol

## Review Concepts (cont'd)

- Formal report with grades assigned.
- Administrator issue report and determines need for corrective action.
- Emphasis is on field supervision of contractor.
- Review of contractor's work incidental to review of field element oversight.

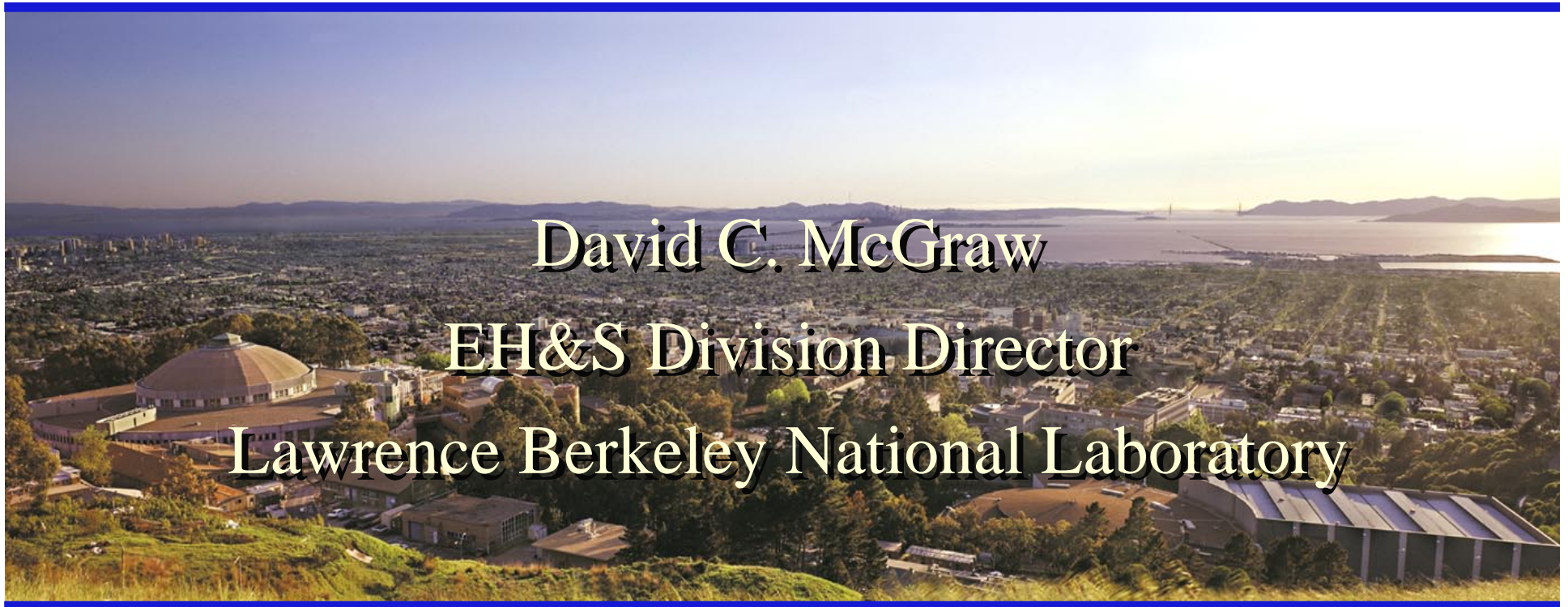
# Coordinating and Integrating Line & Independent Oversight Activities

- OA must preserve its independence.
- Line management and independent oversight reviews should be conducted to similar standards-based criteria.
- Line management oversight, if performed effectively, should result in similar evaluations of safety as those done by OA (no surprises).

# NNSA Efforts to Coordinate and Integrate Line & Independent Oversight Activities

- NNSA review protocol uses standards-based criteria. NNSA has provided these to OA and has requested that NNSA and OA agree to similar criteria for conducting reviews.
- NNSA and OA working on agreement regarding oversight responsibilities and coordination.
- Schedule for next 2 years

# Self-Assessment Program Accreditation



Department of Energy  
Executive Safety Council  
December 11-12, 2001

# ISM: One Important Ingredient

- A Robust Self-Assessment Plan: One Key to Success – A Berkeley Lab report card



# Sustaining ISM: Self-Assessment

- We believe that **results** count
- We believe the University of California, as contractor, should manage **day-to-day**
- As long as business is done **ethically**, with **integrity**, all DOE should care about are results

# Sustaining ISM: Self-Assessment

## Session 1, Element 3:

- Voluntary accreditation of contractor self-assessment programs

## Results Count:

- Have robust measures
  - Legal
  - ISM rubrics
- Ensure contractor addresses those measures in self-assessment plan
- Have robust **Operational Awareness program**, with **site office** as focal point
- Have **occasional** EH/other reviews based on performance – such high-level reviews should look at **systems**

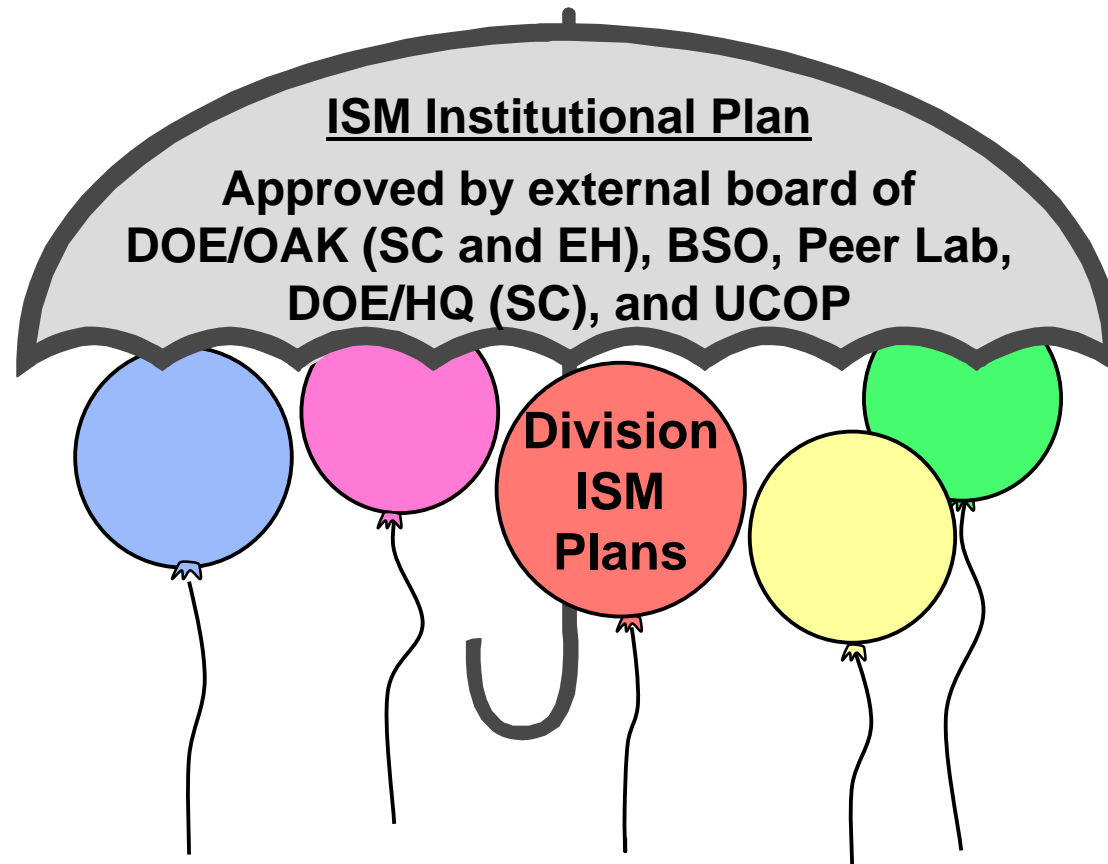
# Sustaining ISM: Precedent in VPP and both EPA and ISO 14001 EMS's

- More responsibility on operator for self-assessment
- Consistent with ISM
  - Line management accountability
  - Worker involvement
  - Breakaway from mere compliance
- Rewards
  - Better ES&H performance
  - Recognition
  - Reduced oversight
- Can work with the right site office – contractor relationship

LBL/BSO model has worked

# ISM Model at Berkeley Lab:

## Have a Master Plan



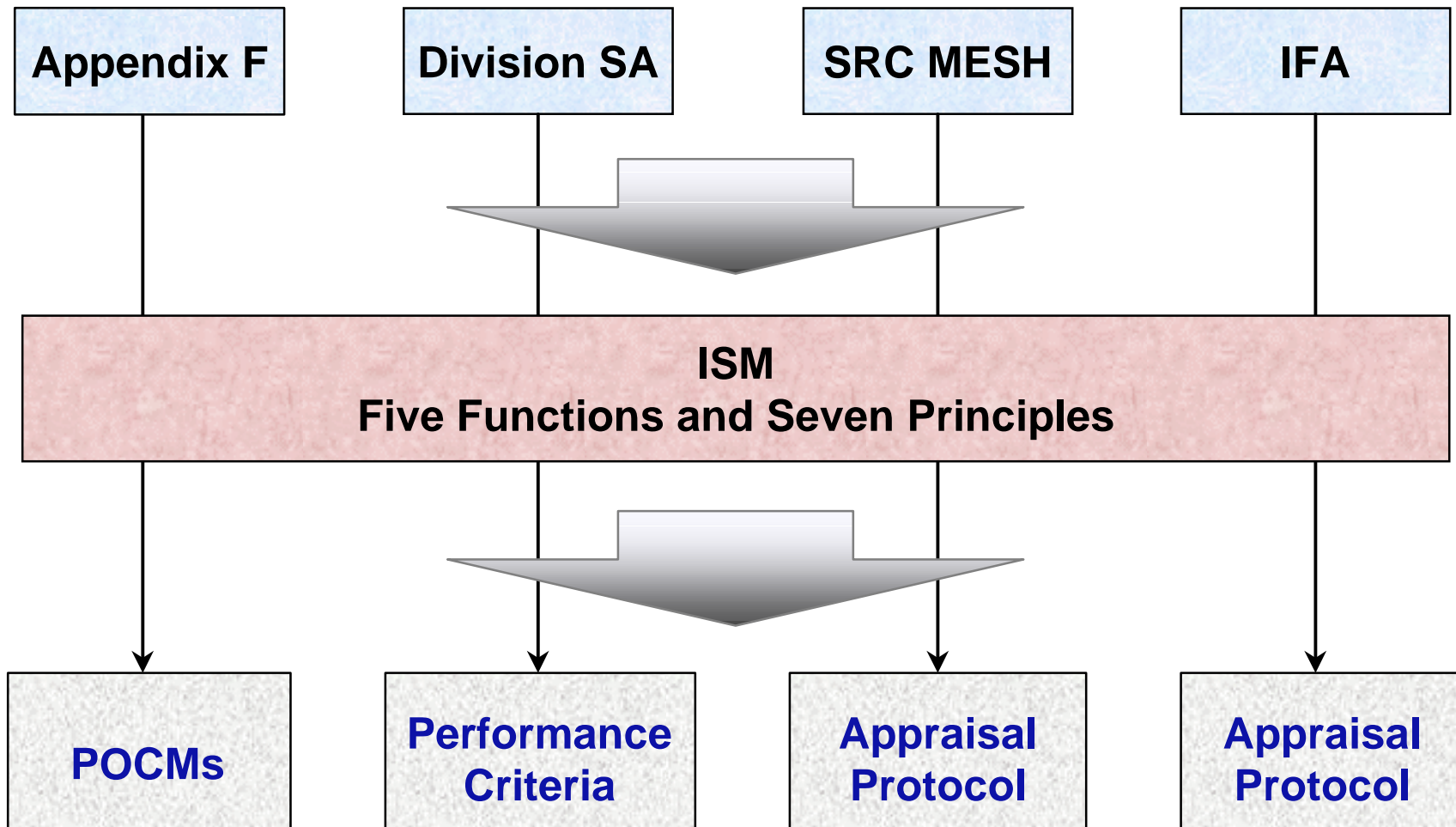
- Reviewed by internal ISM Board (EH&S Director plus two Deputy Lab Directors)
- Division Plans are updated annually and receive Board review triennially

# Sustaining ISM: There Must Be an ISM Master Plan

- Aligning ISM functions and principles to the Lab's **four-tiered** Self-Assessment system
- Developing and improving leading indicators of ISM
- Refreshing Division ISM Plans
  - » Annual rewrites, new goals, **triennial internal ISM Board reviews**
  - » MESH (Management of ES&H) review follow-up by Division Directors
  - » Not all divisions have identical measures; tailoring encouraged
- Combination of **Leading** and **Lagging** indicators

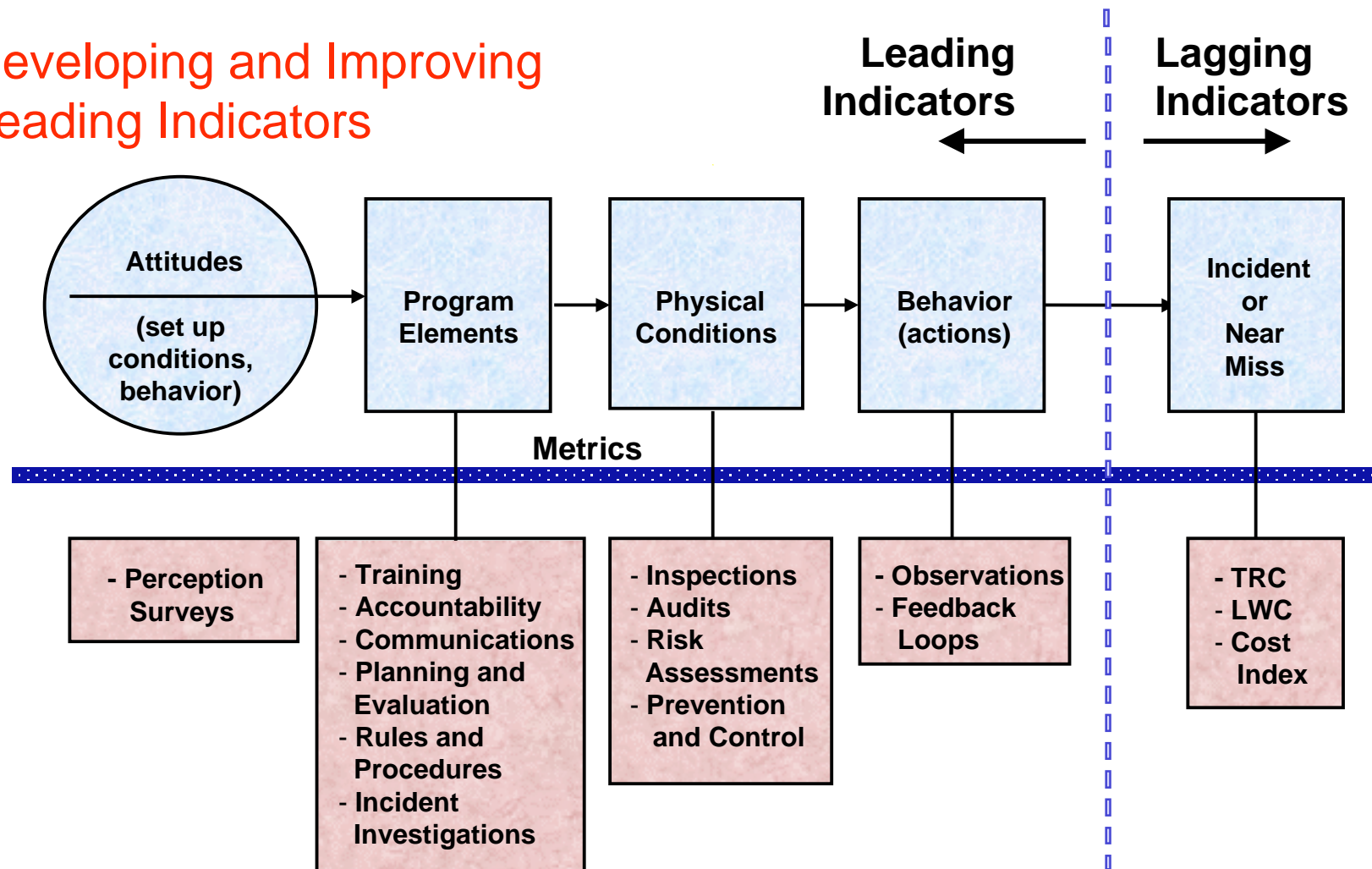
# Sustaining ISM: Self-Assessment Program – **Keystone**

## Self-Assessment Alignment with ISM



# Sustaining ISM: Emphasis on Leading Indicators as ISM Matures

Developing and Improving  
Leading Indicators



# Sustaining ISM

How do we know ISM works?

We measure!

We create a report card\*

The ISM Report Card\*  
“At-A-Glance”

**There are other report cards (UCOP contract grade, DOE contract grade, EH reviews, Peer reviews)**



# Summary of FY 2000 ES&H Performance (At-A-Glance)

Criteria	1 – Define Work	Assessment	Rating
Expectations	Evidence of strong ES&H communication (Y/N)	Yes	
	Employees, guests, and visitors accountable for ES&H (Y/N)	Yes	
	Evidence that ES&H plan is being implemented (Y/N)	Yes	
	Resources and funds adequate for all ES&H issues (Y/N)	Yes	
Criteria	2 – Identify Hazards	Assessment	Rating
Expectations	% Work with hazard analysis	100%	
	% Authorized work being reviewed within past 12 months	100%	
	Chemical inventory updated within past 12 months (Y/N)	Yes	
Criteria	3 – Control Hazards	Assessment	Rating
Expectations	% Hazard control equipment certified & calibrated	100%	
	Signage and posting updated within past 12 months (Y/N)	Yes	
	Active ergonomic training and evaluations (Y/N)	Yes	

Rating:  excellent  partial  marginal

# Summary (cont.)

Criteria	4 – Perform Work	Assessment	Rating
Expectations	% Authorized work without major deficiencies	100%	
	% SAAs in compliance	100%	
	% QA failure rate	0.58%	
	# of NCARS	1	
	# of ORPS occurrences (3-yr. running avg. – 3.67)	1	
	Injury and accident case rates (TRC); % improvement	4.9 TRC; 29% improve	
	% Job hazard questionnaire	92%	
	% Completion rate of required courses	88%	
	% Completion for emergency response training	93% (13/14)	
	% Hazardous waste reduction	55.4%	
	% Low-level radioactive waste reduction	29%	
	% Mixed waste reduction	100%	
Criteria	5 – Feedback and Improvement	Assessment	Rating
Expectations	% Work space inspected	100%	
	LSAD completed or on schedule	96% (25/26)	
	% L/M participating in assessments (i.e., regular walk-throughs)	100% group leaders & division director	
	Evidence of active safety management group (Y/N)	Yes	

# FY 1999 Division Self-Assessment Performance

Criteria	Divisions Expectations	AFRD	ALS	Chemical Sciences	Computing Sciences	Directorate	EH&S	Engr	Environ. Energy Technology	ESD	Facilities	LSD	MSD	Nuclear Sciences	Phys Biosci.	Physics	Technical Services	Expectation Score
<b>1</b>	evidence of strong ES&H communication (y/n)	yes	yes	partial	yes	yes	yes	yes	yes	yes	yes	yes	yes	partial	yes	yes	yes	95.8%
	% ES&H in P2R	100%	100%	100%	yes	100%	100%	100%	100%	100%	100%	100%	partial	yes	100%	100%	100%	97.9%
	evidence that ES&H plan is being implemented (y/n)	yes	yes	yes	partial	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	partial	95.8%
	resources and funds adequate to address all ES&H issues (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
<b>2</b>	% work with hazard analysis	100%	100%	100%	partial	na	100%	partial	100%	100%	100%	100%	100%	80%	100%	100%	partial	91.1%
	% authorized work being reviewed within past 12 months	100%	100%	100%	na	na	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	chemical inventory updated within past 12 months (y/n)	yes	yes	yes	na	na	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
<b>3</b>	% engineering controls certified (i.e., biocabinets, gloveboxes)	na	100%	100%	na	na	100%	100%	100%	100%	100%	100%	100%	100%	100%	na	100%	100%
	signage & posting updated within past 12 months (y/n)	yes	yes	yes	partial	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	97.9%
<b>4</b>	% authorized work w/o major deficiencies	100%	100%	100%	na	na	86%	100%	100%	100%	100%	98%	100%	100%	100%	100%	100%	97.6%
	% job hazard questionnaire (JHQ) completed	100%	100%	88%	73%	96%	94%	100%	96%	86%	100%	65%	94%	91%	96%	70%	100%	89.6%
	% completion rate of required courses	90%	91%	82%	94%	>90%	93%	96%	76%	80%	71%	78%	85%	91%	82%	83%	93%	83.3%
	% completion for emergency response training	92%	85%	na	78%	96%	100%	93%	44%	50%	63%	70%	84%	90%	82%	partial	99%	75.6%
	% SAAs in compliance	80%	100%	92%	100%	na	98%	100%	85%	93%	85%	96%	84%	95%	100%	100%	92%	91.1%
	# NCARs or % QA failure rate	0	0	0	na	na	0	2.99% QA fail	2 NCARs 8% QA fail	1 NCAR 8.33% QA fail	3.33% QA fail	5 NCARs 5.8% QA fail	3 NCARs 11.8% QA fail	5.08% QA fail	3.75% QA fail	0	2.99% QA fail	78.6%
	% hazardous waste reduction	26.7%	89%	3.8%	40.6%	na	14%	58%	20.9%	61.4%	waste increase	21%	waste increase	27.2%	32.7%	46.7%	16.4%	95.6%
<b>5</b>	% work space inspected	100%	100%	100%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100.0%
	LSAD completion rate	30%	70%	100%	76%	100%	100%	100%	80%	79%	100%	100%	100%	100%	100%	100%	99%	87.5%
	L/M participating in assessment (i.e., regular walkthroughs) (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	partial	partial	partial	yes	yes	yes	yes	yes	93.8%
	evidence of active safety management group (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	partial	yes	yes	yes	97.9%
	Division Score	94.7%	96.7%	94.7%	86.7%	100.0%	98.3%	98%	88.3%	86.7%	91.7%	90.0%	88.3%	93.3%	96.7%	94.7%	96.7%	93.5%

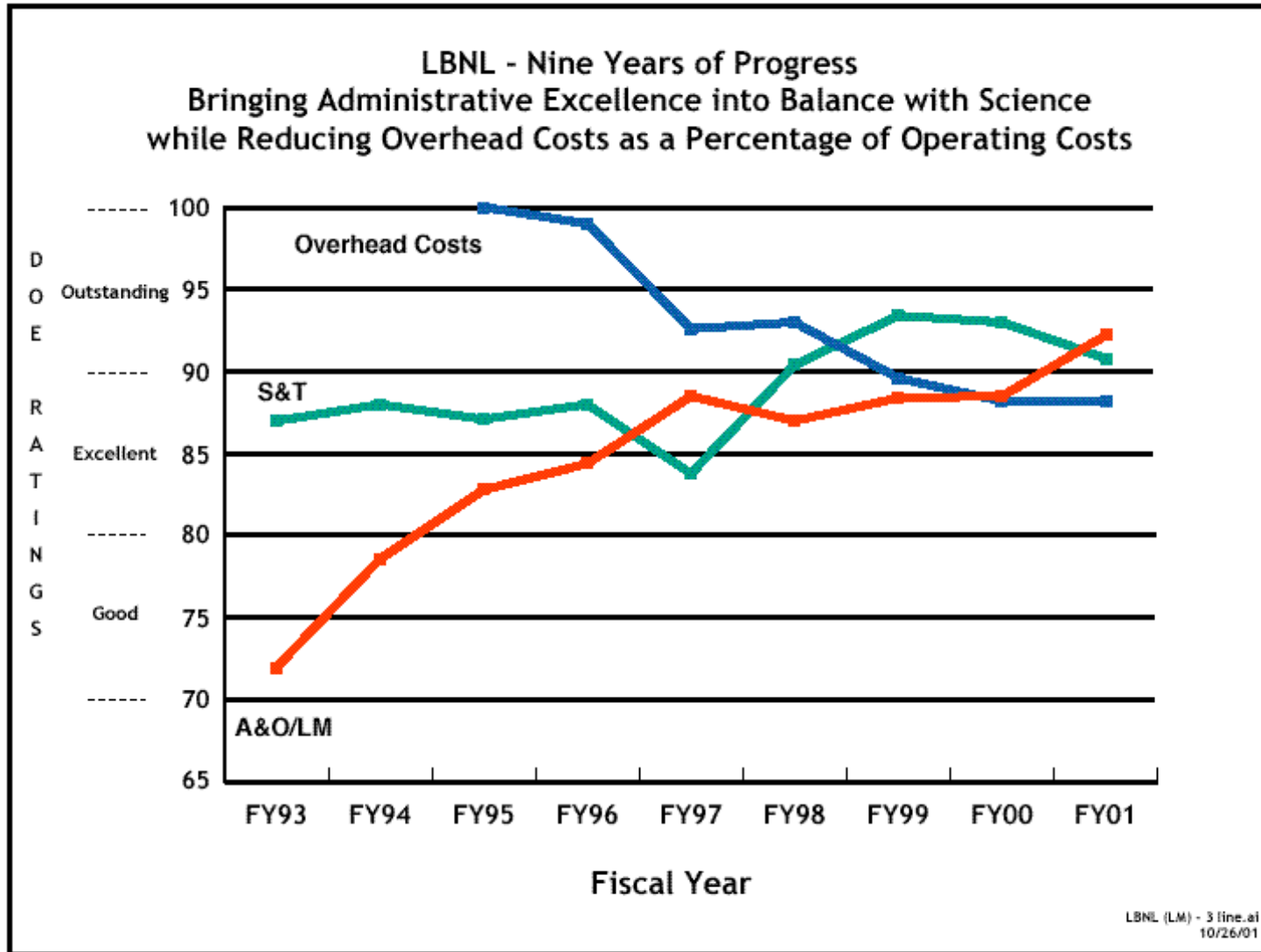
# FY 2000 Division Self-Assessment Performance

Criteria	Divisions Expectations	AFRD	ALS	Chemical Sciences	Computing Sciences	Directorate	EH&S	Engr	Environ. Energy Tech	ESD	Facilities	LSD	MSD	Nuclear Sciences	Phys Biosci.	Physics	Production Sequence Facility	Expectation Score
<b>1</b>	Evidence of strong ES&H communication (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	partial	yes	yes	yes	yes	yes	yes	yes	97.9%
	Employees, guests & visitors accountable for ES&H (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100.0%
	Evidence that ES&H plan is being implemented (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100.0%
	Resources and funds adequate to address all ES&H issues (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100.0%
<b>2</b>	% Work with hazard analysis	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100.0%
	% Authorized work being reviewed within past 12 months	100%	100%	100%	NA	NA	100%	100%	100%	100%	NA	100%	100%	100%	100%	100%	NA	100.0%
	Chemical inventory updated within past 12 months (y/n)	yes	yes	yes	NA	NA	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100.0%
<b>3</b>	% Engineering controls certified & calibrated	100%	100%	100%	NA	NA	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100.0%
	Signage & posting updated within past 12 months (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100.0%
	Active ergonomics training and evaluations (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100.0%
<b>4</b>	% Authorized work w/o major deficiencies	100%	100%	100%	NA	NA	100%	100%	100%	100%	NA	95%	100%	100%	100%	100%	NA	100.0%
	% SAAs in compliance	100%	100%	96%	100%	NA	100%	97%	97%	97%	92%	95%	79%	94%	90%	100%	100%	97.8%
	% QA failure rate	0.0%	22.2%	3.1%	0.0%	NA	0.6%	4.4%	7.7%	8.3%	0.0%	3.3%	7.3%	0.0%	4.3%	0.0%	NA	95.2%
	# NCARS	0	0	0	0	NA	1	1	0	0	0	1	1	0	0	0	NA	81.0%
	# ORPS occurrences	1	0	0	0	0	1	0	0	0	5	1	0	2	0	0	1	91.7%
	Injury & accident case rates (TRC)	1.3	2.0	1.6	1.75	3.1	4.9; 29% improve	1.3	0.9	4.2	9.0	2.9	1.2	0	4.0	2.2	13.1	81.3%
	% Job hazard questionnaire (JHQ) completed	94%	>85%	91%	93%	91%	92%	98%	93%	86%	94%	95%	92%	91%	93%	78%	95%	97.9%
	% Completion of required courses	89%	>85%	92%	89%	93%	88%	95%	87%	86%	83%	94%	96%	93%	90%	78%	88%	95.8%
	% Completion for emergency response training	86%	93%	100%	92%	100%	93%	90%	88%	72%	54%	66%	75%	100%	96%	100%	50%	85.4%
	% Waste reduction (haz., rad., & mixed)	70.6%	waste increase	9.7%	15.5%	NA	55.8%	45.7%	39.4%	35.4%	52.0%	34.3%	76.9%	0.5%	68.0%	waste increase	NA	95.2%
<b>5</b>	% work space inspected	100%	100%	100%	100%	99%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100.0%
	L/M participating in assessment (i.e., regular walkthroughs) (y/n)	partial	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	97.9%
	LSAD completion or on-schedule	88%	90%	93%	95%	100%	96%	100%	94%	100%	92%	100%	100%	100%	87%	100%	100%	100.0%
	evidence of active safety management group (y/n)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100.0%
	Division Score	98.6%	95.8%	100.0%	100.0%	97.9%	97.2%	97.2%	100.0%	94.4%	89.4%	94.4%	94.4%	97.2%	98.6%	95.8%	93.0%	96.5%

# FY 2001 Division Self-Assessment Performance

Criteria	Divisions Expectation:	AFRD	ALS	Chemical Sciences	Computing Sciences	Directorate	EH&S	Engr	Environ. Energy Tech	ESD	Facilities	LSD	MSD	Nuclear Sciences	Phys Biosci.	Physics	PGF	Expectation Score
<b>1</b>	Evidence of strong ES&H communication	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	partial	yes	yes	yes	yes	97.9%
	Employees and participating accountable for ES&H	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
	ISM Plan is reviewed and updated annually	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
	Resources and funds adequate to address all ES&H issues	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
<b>2</b>	% formal authorizations and self-authorized work reviewed within required schedule	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Chemical inventory updated within past 12 months	yes	yes	yes	NA	NA	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
<b>3</b>	% Engineering controls certified & calibrated	100%	100%	100%	NA	NA	>97%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	Emergency contact information updated within past 12 months	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
	Evidence of effective ergonomics program	yes	yes	yes	yes	yes	yes	yes	yes	partial	yes	yes	yes	yes	yes	yes	yes	97.9%
<b>4</b>	% Authorized work w/o major deficiencies	100%	100%	>90%	NA	NA	100%	100%	100%	100%	NA	86%	100%	100%	100%	100%	NA	97.2%
	% SAAs (incl. MWSAAs, RWCAs) in compliance	100%	100%	97%	NA	NA	91%	100%	98%	83%	92%	96%	88%	91%	100%	100%	83%	95.2%
	% QA compliance rate	100%	100%	97.8%	NA	NA	98.6%	100%	95.5%	97.5%	100%	96.4%	92.9%	100%	100%	100%	100%	97.6%
	# NCARS	0	0	1 "Type 1"	NA	NA	0	0	0	0	0	0	7	0	1	0	0	88.1%
	Injury & accident case rates (TRC)	0.0	1.6	2.9	2.7	2.8	1.7	2.7	0.9	5.8	6.7 imp. 30%	0.7	0.5	0.0	1.6	1.0	3.7 imp. 72%	87.5%
	% Job hazard questionnaire (JHQ) completed	92%	98%	91%	87%	96%	89%	98%	93%	86%	75%	95%	97%	93%	94%	88%	90%	97.9%
	% Completion rate of required courses	91%	95%	90%	93%	94%	88%	95%	86%	90%	94%	94%	97%	89%	92%	86%	63%	97.9%
	% Completion for emergency response training	100%	93%	100%	97%	87%	100%	85%	88%	89%	88%	92%	93%	100%	79%	100%	100%	97.9%
	Waste reduction (haz., rad., & mixed)	partial	yes	yes	yes	NA	yes	yes	yes	NA	yes	yes	yes	yes	yes	yes	NA	97.4%
<b>5</b>	% work space inspected	100%	100%	100%	100%	100%	100%	100%	100%	96%	100%	100%	100%	90%	100%	100%	100%	100%
	L/M participating in assessment (i.e., regular walkthroughs)	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	partial	97.9%
	LSAD completion rate	80%	97%	100%	90%	100%	96%	97%	99%	100%	100%	100%	78%	82%	100%	90%	no system	89.6%
	evidence of active safety management group	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	100%
	Division Score	97.0%	100%	97.0%	97.9%	97.8%	100%	98.5%	100%	93.7%	98.4%	98.5%	92.4%	98.5%	95.5%	100%	91.7%	97.3%

# Berkeley Lab – Nine Years of Progress



# Sustaining ISM: Another Important Ingredient – **Operational Awareness\***

Berkeley Lab works closely with Site Office:

- Joint development of ISM performance measures
  - ISM process measure and leading indicators
  - Outcome measures
- Each site office ES&H SME has a plan
  - Focuses on attitudes and behaviors
  - Outcomes
  - ISM rubrics
- Berkeley Site Office Director and senior Lab management (division directors and Lab directors) walk-throughs

\*This approach fosters mutual values and trust which could be mirrored in contract terms and conditions

# Sustaining ISM:

## The Next Step – Best Practices

What can Best Practices bring to DOE Laboratory Management and Operations?

- Science quality
- Support service quality, effectiveness, efficiency
- Operational stability and consistency
- DOE management and contractor accountability

A “Best Practices” contract?



# Operations Mission Statement

To provide effective and efficient operational support to the scientific mission of the Laboratory.

# Operations Vision

Berkeley Lab will be the best place in the world to conduct scientific research. Our effective and efficient infrastructure, systems, engineering, and health & safety programs will be world class.

We will be part of a unified Laboratory, where the full contribution of every individual is expected, respected and recognized. Working across organizational boundaries, we will develop new synergies that deliver effective innovative solutions. We will appreciate and benefit from our diversity. Our environment will be rich with opportunities and we will be challenged to grow to our fullest potential.

We will have constructive relationships with and be trusted by our sponsors, neighbors and collaborators. We will cultivate relationships with competence, integrity and openness. Our partnerships will open new opportunities to serve our communities, the nation, and the world.

# EH&S Vision

The Berkeley Lab is an internationally renowned research facility and a national treasure. It requires a world class EH&S organization that works as a partner with the Laboratory's research and development divisions/departments to provide cost-effective, customer-focused services that enable the creation of world class science. To be world class, EH&S staff must have the same *dedication, professionalism, integrity, and intellectual curiosity* as the researchers who established Berkeley Lab's scientific reputation.

# EH&S Charter

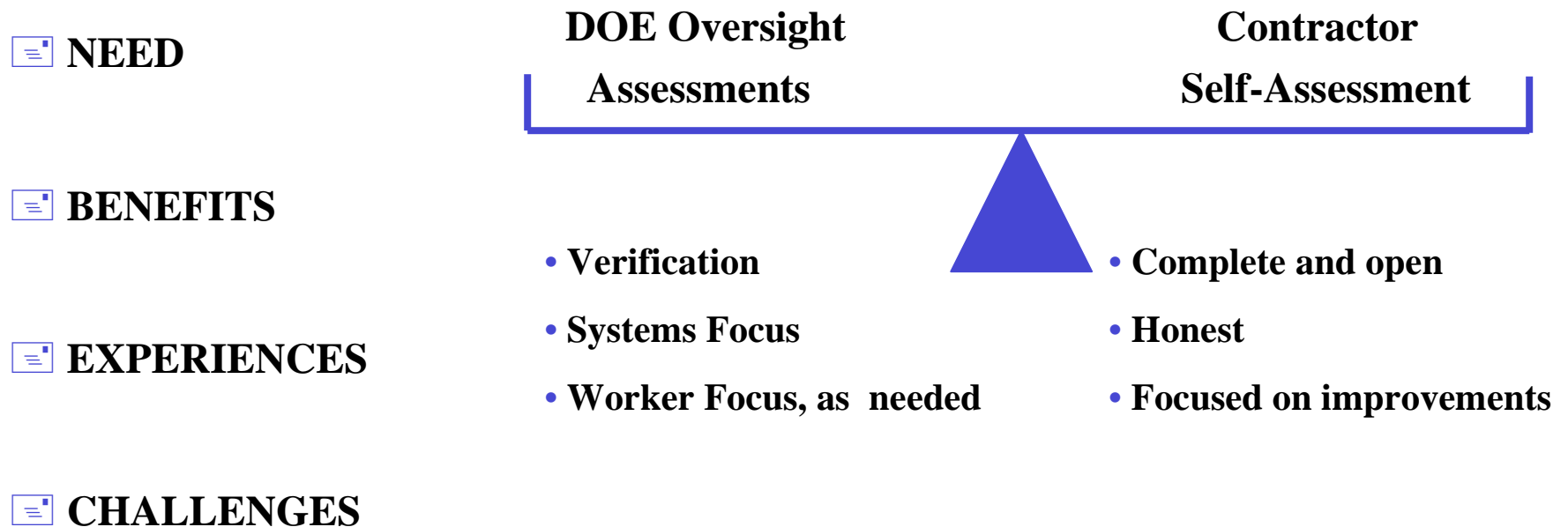
## Chapter 2, Health and Safety Manual

The primary objective of the Environment, Health & Safety (EH&S) Division is **to promote the protection of workers, the public, and our environment** by providing professional and technical expertise, follow-on services, and integrated ES&H policy to the Lab's research and support programs.

- The EH&S Division supports and acts as a **partner with line management as it meets direct responsibilities** to ensure that protection of workers, the public, and the environment is integrated into the primary research and support functions of each division or unit.
- Of equal importance, the EH&S **Division supports and provides expertise directly to each Lab worker** who seeks ES&H advice and help, or who voices a concern.

FOCUSING DOE OVERSIGHT  
*or*  
ACHIEVING BALANCE OF OVERSIGHT ACTIVITIES  
*or*  
TRUST BUT VERIFY

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# FOCUSING DOE OVERSIGHT

- **NEED:**

-  **Provide clear accountability for contractors**

-  **DOE sets expectations**

-  **Contractor determines how to do the work**

-  **Focus on performance and outcomes**

-  **Justify and defend incentive fees and evaluations**

-  **Use resources more effectively**

## FOCUSING DOE OVERSIGHT

- **BENEFITS:**

-  **Integrated Safety Management becomes “the norm”**

-  **Federal employees perform value-added activities**

-  **Teamwork improves**

-  **Culture of openness emerges**

-  **Public trust improves**

# FOCUSING DOE OVERSIGHT

- **EXPERIENCES:**

- ☐ **ORO moved toward reliance on self assessment processes prematurely**

- ☹ **adequate systems not in place**

- ☹ **staff not ready**

- ☹ **documentation weak**

- ☐ **Two ISM verifications revoked with plans to strengthen, improve, and validate**

- ☐ **Standards Based Management System**

- ☐ **improvement initiatives underway**







# FOCUSING DOE OVERSIGHT

## EXPERIENCES (Continued):

 **Facility Representatives provide essential day-to-day review**

 **Coordination of reviews essential:**

-  **multiple programs**
-  **multiple contractors**
-  **multiple locations**
-  **constrained resources**

# FOCUSING DOE OVERSIGHT

- **CHALLENGES:**

- ☐ **Contractor transitions, changing cultures**

- ☐ **Roles and Responsibilities of federal staff changing**

- ☯ **history of compliance audits**

- ☯ **culture changes**

- ☐ **Availability of skills and subject-matter experts**

- ☯ **encourage mobility**

- ☐ **Subcontractor layers**

- ☯ **flow down of requirements**

- ☯ **oversight inadequate**

- ☯ **communication more difficult**

# FOCUSING DOE OVERSIGHT

## CHALLENGES (Continued):

### Need for direct oversight of workers continues

-  Facility Representatives
-  Accident investigations
-  Management walkthroughs
-  Focused, for cause, reviews

# Session 1, Element 4

"Focusing DOE Oversight on Contractor Self-Assessment and Performance Indicators Versus Direct Oversight of Workers"

Ken Powers

*Session 1: Oversight and self-assessment*

# Formulas for How Contractors Should Behave and Help DOE to do the "Right Thing"

- $F/P + A/A = T$

- $T + CC = AR/O$



# Key for "Contractor Trust" Formula

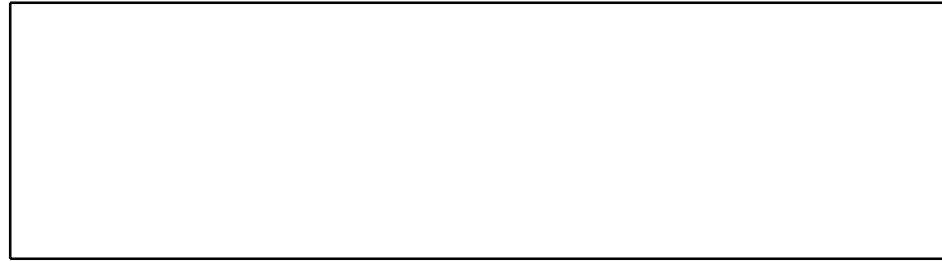
- Facts/Perspective +  
Accountability/Actions = Trust

# Key for "DOE Response"

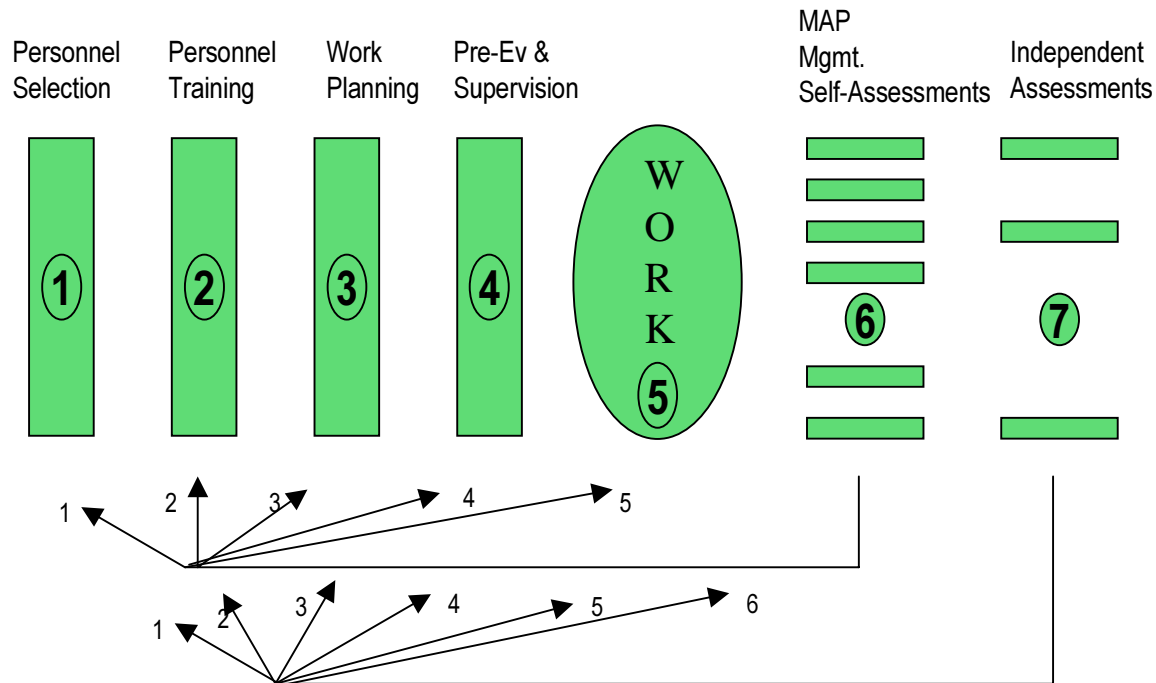
- Trust + Constant Communication =  
Appropriate Level of DOE  
Requirements/Oversight

# Safety Philosophy (w/o Trust)

**DOE  
Emphasis**

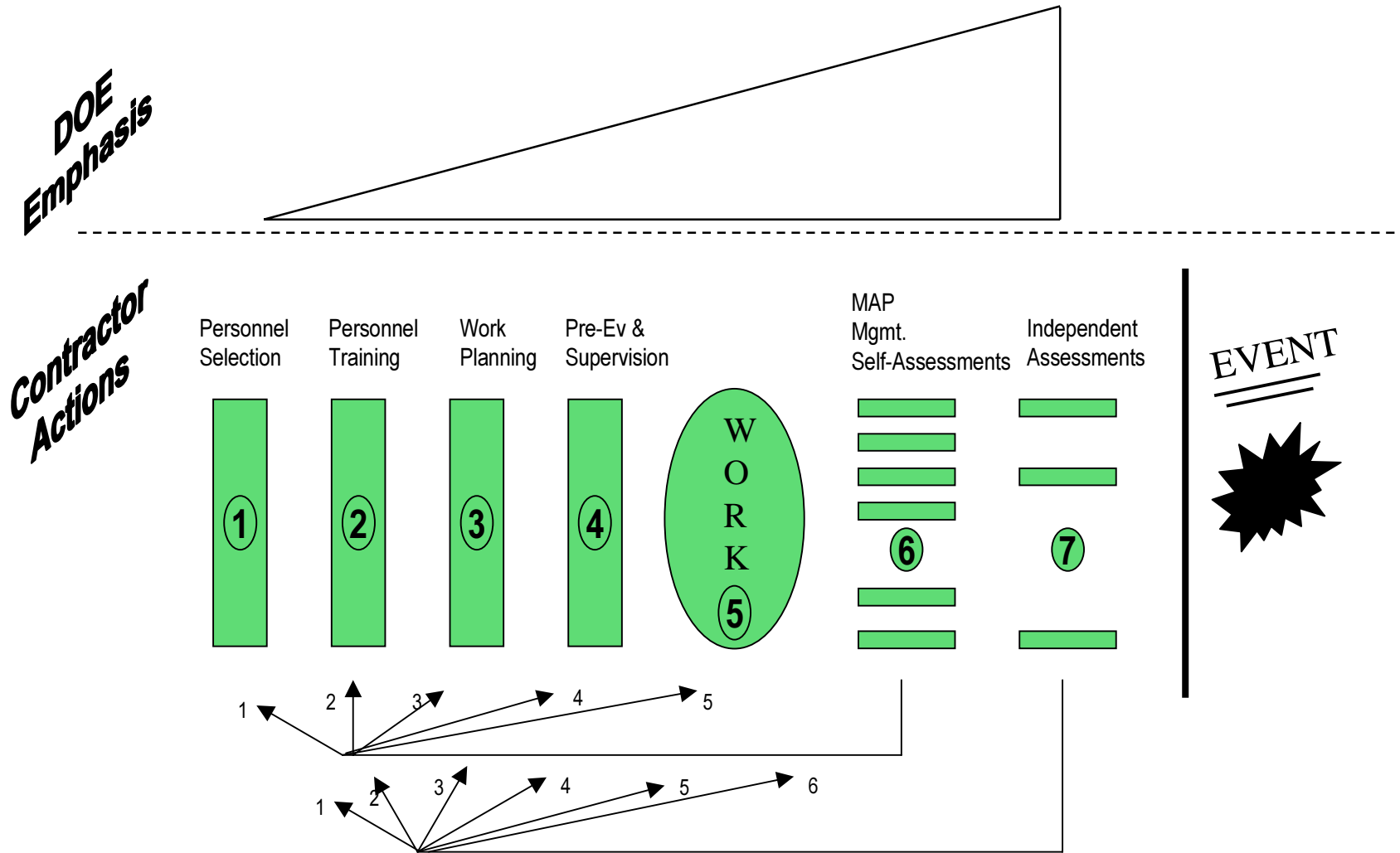


**Contractor  
Actions**





# Safety Philosophy (with Trust)



# Metrics - What is Measured - Gets Improved!

- Need many - tie to work
- Keep evolving
- Level of seriousness
- Develop "Rate of Occurrence"
- Common sense
- Take action based on data

# Contractor Safety Lessons

- We have not invented any new or exotic ways to make mistakes. Most are rooted in the mundane: planning, supervision, personnel performance, attention to detail.
- Resist the "Assessment Reflex": more independent oversight is not the answer, push self-assessments by line organizations.
- Focus improvement efforts on factors that can prevent problems: personnel selection and training, sound procedures, good planning, thorough pre-ev briefs and good supervision.
- Engage appropriate management in reviewing problems, identifying trends, initiating actions, and follow-up on corrective action effectiveness.
- Face your trends, and deal with them.
- Maintain free information flow.